

CHROMATE-FREE LOW-FRICTION COATING COMPOSITION

ABSTRACT OF THE DISCLOSURE

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The present invention is directed to a low-friction coating composition, comprising: about 10 to about 30 wt% of an epoxy resin composition consisting essentially of 4-glycidyloxy-N,N'-diglycidylaniline; about 30 to about 60 wt% of an epoxide resin composition consisting essentially of bisphenol A diglycidyl ether polymer; and about 20 to about 40 wt% of an aromatic amine composition consisting essentially of 4,4'-sulfonyldianiline; wherein all weight percents are based on the total weight of the low-friction coating composition, and wherein the low-friction coating composition is substantially free of chromate. The invention is also directed to a substrate coated with the above low-friction coating composition, and methods of coating a substrate with the low-friction coating composition.

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